

Human S100B Antibody

Monoclonal Mouse IgG_{2A} Clone # 721713 Catalog Number: MAB18202

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human S100B in direct ELISAs.
Source	Monoclonal Mouse IgG _{2A} Clone # 721713
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	E. coli-derived recombinant human S100B Met1-Glu92 Accession # P04271
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

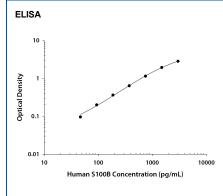
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

ELISA

This antibody functions as an ELISA detection antibody when paired with Mouse Anti-Human S100B Monoclonal Antibody (Catalog # MAB18201).

This product is intended for assay development on various assay platforms requiring antibody pairs. We recommend the Human S100B DuoSet ELISA Kit (Catalog # DY1820-05) for convenient development of a sandwich ELISA.

DATA



Human S100B ELISA Standard Curve. Recombinant Human S100B protein was serially diluted 2-fold and captured by Mouse Anti-Human S100B Monoclonal Antibody (Catalog # MAB18201) coated on a Clear Polystyrene Microplate (Catalog # DY990). Mouse Anti-Human S100B Monoclonal Antibody (Catalog # MAB18202) was biotinylated and incubated with the protein captured on the plate. Detection of the standard curve was achieved by incubating Streptavidin-HRP (Catalog # DY998) followed by Substrate Solution (Catalog # DY999) and stopping the enzymatic reaction with Stop Solution (Catalog # DY994).

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUNI

S100B belongs to the S100 subgroup of the EF-hand family of Ca²⁺ binding proteins. It is a homodimer that is expressed primarily in the brain by astrocytes, oligodendrocytes and Schwann cells. S100B has multiple intracellular functions, but can also be secreted from cells to exert extracellular functions. Some of the extracellular functions of S100B may be mediated by RAGE (receptor for advanced glycation end products). Blood levels of S100B can be used to monitor the extent of brain injury and malignant melanoma.

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